



Syllabus of medical ,Histology

Histology

Lectures of medical histology for second year students .

Topic. Circulatory system .

- **Introduction.**
- **Blood vascular system**
- **Capillaries -**
- **Type of capillaries (continuous and fenestrated) .**
- **Arteries . (Arteriole , small arteries , medium sized arteries ,Large elastic arteries)**
- **Age changes in arteries . (Atherosclerosis) .**
- **Veins . (Venule , small vein , medium sized vein , large vein) .**
- **Vasa vasorum .**
- **Arterio-venous anastomoses . (Direct and indirect (Hoyer or Shunt) .**
- **The heart . Chambers , Layers (Endocardium , Myocardium and Epicardium) .**
- **vascular system . Lymph , Lymph capillaries and Lymph vessel**

Topic.

2-The skin and its appendages .

- **Thick skin .**
- **Thin skin .**
- **Epidermis**
- **Dermis .**
- **Hair Follicle .**
- **Nail.**
- **Glands of skin (Sweat gland, Sebaceous gland)**
- **Sensory nerve endings (Pacinian and Meissners corpuscles) .**

Lymphatic system .

Lymphatic organs :-

- Lymph node .
- Pharyngeal tonsil .
- Palatine tonsils .
- Spleen .
- Thymus .

Heamopoiesis .

Digestive system

- Introduction .
- General function.
- Oral cavity :- Lip , Tongue , cheeck , Teeth , Gum , Hard palate , soft palate .
- The salivary glands .
- Esophagus .
- Stomach . (Cardiac , Fundic, Pyloric ,) .
- Small intestine (Duodenum , Jejunum ,Ileum)
- Peyers patches .
- Large intestine . (Ceacum ,colon , rectum , Anal canal) .
- Appendix .
- Assosiated glands (Liver , Pancreas, Gall bladder) .

Nervous system .

- Introduction .
- Types of neuron .
- Classification.
- Peripheral nervous system . (Nerves and ganglia) .
- Cranio – spinal ganglia ,
- Autonomic ganglia .
- Central nervous system .
- Spinal cord .
 - Cerebrum .
- Cerebellum .

- **Meninges .**
- **Dura matter .**
- **Blood brain barrier .**
- **Choroids plexus .**

Respiratory system .

- **Respiratory epithelium .**
- **The cell types of respiratory epithelium .**
- **Nasal cavity .**
- **Vestibule .**
- **Nasal fossae.**
- **Para nasal sinuses .**
- **The larynx .**
- **The trachea .**
- **The lungs .**
- **Bronchial tubes .**
- **Bronchioles .**
- **Alveolar duct .**
- **Alveoli .**
- **Respiratory membrane .**

The endocrine system .

- **Introduction .**
- **Definition of endocrine glands .**
- **Types of endocrine glands .**
- **Types of secretion .**
- **Types of endocrine glands : (structure , function)**
- **Pituitary gland .**
- **Thyroid gland .**
- **Parathyroid gland .**
- **Adrenal gland (Supra renal).**
- **Pineal body .**

The urinary system .

- **Introduction .**
- **The kidneys .**

- **Structure .**
- **The excretory passages of the kidney . (The nephron).**
- **Ureter .**
- **Urinary bladder .**
- **Male urethra .**
- **Female urethra .**

Female reproductive system .

- **Introduction .**
- **The ovaries .**
- **Types of the follicles .**
- **Development of ovarian follicles .**
- **Atretic follicle .**
- **Corpus luteum of ovarian cycle .**
- **Corpus luteum of pregnancy .**
- **Corpus albicans .**
- **Ovulation .**
- **The uterine tube (Fallopian tube) .**
- **The uterus .**
- **The Menstrual cycle .**
- **The cervix .**
- **The Vagina .**

Mammary glands .

- **Introduction .**
- **Areola and nipple .**
- **Structure**
- **Duct system .**
- **Inactive mammary glands .**
- **Mammary gland during pregnancy .**
- **Lactating mammary gland .**

Male Reproductive system .

- **Introduction .**
- **Parts of male reproductive system .**
- **Testis .**
- **Seminiferous tubules .**

- **Genital ducts (Rete testis , Ductuli afferents , Ductus epididymis,**
- **Ductus deferens , Ejaculatory duct .**
- **Accessory glands associated with male reproductive system.**
- **Prostate gland .**
- **Seminal vesicles .**
- **The penis.**
- **Semen .**

Special sense organs .

- **The eyes .**
- **Introduction .**
- **Layers of the eye . (Corneo – sclera, U vea layer Ciliary's portion & choroids) ,**
- **The retina .**
- **Chambers of the eye .**
- **Iris .**
- **Lens .**
- **Schlemm canal .**
- **Lacrimal gland .**
- **The ear .**
- **Introduction .**
- **External ear , Middle ear , Inner ear .**